

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

### City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.67	03/20/2018 03/20/2018	Zach Jojola

LM Start		Rating **	A	Issue No.	20
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_NA0005_01_s _ 2013_20				
Comment Code					
Inspector Comment					
City of Sacramento has copies of the levee O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	22
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_NA0005_01_s _ 2013_22				
Comment Code					
Inspector Comment					
City of Sacramento maintains a stockpile of Flood Fight response material.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.67	03/20/2018 03/20/2018	Zach Jojola

LM Start		Rating **	A	Issue No.	23
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_NA0005_01_s_2013_23				
Comment Code					
Inspector Comment					
City of Sacramento has a written response plan and has taken flood fight methods training.					

No Photos

LM Start	0.08	Rating **	M	Issue No.	79
LM End	0.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Encroachments		38.589690 °	38.589690 °	
			-121.505106 °	-121.505106 °	
DWR ID	DWR_NA0005_01_s_2017_79				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Tree limbs on waterside slope.					

Photo 1 of 1 : SP\_2018\_NA0005\_251\_79\_20180319\_00016.jpg



Fallen tree limbs on the waterside levee slope, looking toward the Sacramento River. Spring 2017.

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Unit No. 01 Sacramento River	Left	3.67	03/20/2018 03/20/2018	Zach Jojola

LM Start	1.16	Rating **	C	Issue No.	13
LM End	1.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			38.574780 °	38.568757 °
				-121.510191 °	-121.515930 °
DWR ID	DWR_NA0005_01_f_2012_13				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

No Photos

LM Start	1.29	Rating **	C	Issue No.	76
LM End	1.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.573240 °	38.573240 °
				-121.511707 °	-121.511707 °
DWR ID	DWR_NA0005_01_s_2017_76				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Rodent has burrowed into previously grouted hole.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2018

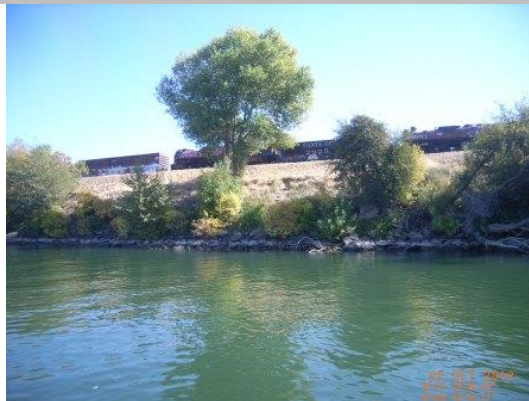
### City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.67	03/20/2018 03/20/2018	Zach Jojola

LM Start	1.31	Rating **	M	Issue No.	1
LM End	1.39	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.573169 °	38.572277 °
				-121.511998 °	-121.513063 °
DWR ID	DWR_NA0005_01_s_2016_1				
Comment Code					
Inspector Comment					
2008 - Oversized levee, should be repaired under maintenance. 2009 - Shallow slumps at the mid bank. 2010 - Some minor erosion at the toe, likely from wave wash. Some new shallow slumps. 2011 - One new tree has fallen. 2013 - Erosion continues on the slope surface, site extended upstream. 2015: No observed changes. [2015 Site ID: SAC 58-5 L]					

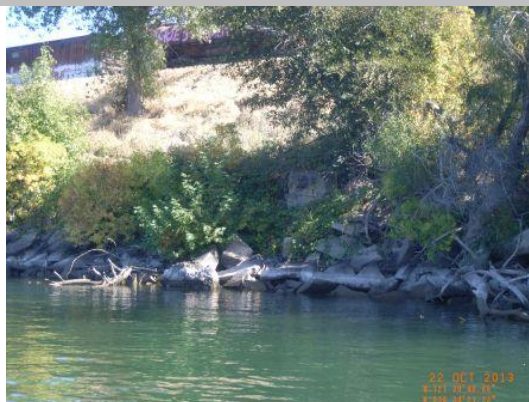
LM Start	<b>1.31</b>	Rating **	M	Issue No.	<b>1 (cont)</b>
LM End	<b>1.39</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP\_2018\_NA0005\_251\_1\_20180319\_00001.jpg



USACE 2013 Photo #1

Photo 2 of 2 : SP\_2018\_NA0005\_251\_1\_20180319\_00002.jpg



USACE 2013 Photo #2

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.67	03/20/2018 03/20/2018	Zach Jojola

LM Start	<b>1.46</b>	Rating **	C	Issue No.	<b>75</b>
LM End	<b>1.46</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.571397 °	38.571397 °	
			-121.513797 °	-121.513797 °	
DWR ID	DWR_NA0005_01_f_2017_75				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:50					
Site Designation:SCDU-03					
Repair Type: Erosion					
Rating:Critical					
Field Date:7/18/2017					
Notes:					

No Photos

LM Start	<b>2.15</b>	Rating **	A/W	Issue No.	<b>81</b>
LM End		Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		38.562070 °	°	
			-121.515770 °	°	
DWR ID	DWR_NA0005_01_f_2017_81				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:492					
Site Designation:SCDU-07					
Repair Type: Erosion					
Rating:Serious					
Field Date:7/18/2017					
Notes: Erosion length = 80 feet					
City will repair this section summer 2018.					

Photo 1 of 3 : LEVAL\_SP\_2018\_492\_1797.jpg



* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.67	03/20/2018 03/20/2018	Zach Jojola

LM Start	2.15	Rating **	A/W	Issue No.	81 (cont)	
LM End		Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.562070 °		
				-121.515770 °		
DWR ID	DWR_NA0005_01_f_2017_81					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:492						
Site Designation:SCDU-07						
Repair Type: Erosion						
Rating:Serious						
Field Date:7/18/2017						
Notes: Erosion length = 80 feet						
City will repair this section summer 2018.						

Photo 2 of 3 : LEVAL\_SP\_2018\_492\_1740.jpg



Photo 3 of 3 : LEVAL\_SP\_2018\_492\_1741.jpg



* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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### City of Sacramento

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.67	03/20/2018 03/20/2018	Zach Jojola

LM Start	2.16	Rating **	A/W	Issue No.	86
LM End	2.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.562024 °	38.562024 °
				-121.515923 °	-121.515923 °
DWR ID	DWR_NA0005_01_s_2017_86				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on wateside slope. Marked on March 17, 2017					

Photo 1 of 1 : SP\_2018\_NA0005\_251\_86\_20180319\_00022.jpg



Erosion on wateside slope that appers to be underwater. Marked on March 17, 2017. Spring 2017.

LM Start	2.31	Rating **	A/W	Issue No.	82
LM End	2.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			38.559767 °	38.559767 °
				-121.515264 °	-121.515264 °
DWR ID	DWR_NA0005_01_s_2016_82				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
City of Sac grouted this area and will continue to monitor.					

Photo 1 of 1 : SP\_2018\_NA0005\_251\_82\_20180319\_00020.jpg



View of rodent hole on wateside slope. Fall 2017.

\* Location  
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CR : Crown

\*\* Rating  
A : Acceptable  
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A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
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Unit No. 01 Sacramento River	Left	3.67	03/20/2018 03/20/2018	Zach Jojola

LM Start	<b>2.45</b>	Rating **	A/W	Issue No.	<b>8</b>
LM End	<b>2.45</b>	Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Vegetation		38.557937 °	38.557937 °	
			-121.514237 °	-121.514237 °	
DWR ID	DWR_NA0005_01_s _ 2012_8				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	<b>2.45</b>	Rating **	C	Issue No.	<b>95</b>
LM End	<b>2.45</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Erosion / Bank Caving		38.557890 °	38.557890 °	
			-121.514249 °	-121.514249 °	
DWR ID	DWR_NA0005_01_s _ 2017_95				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Minor erosion on waterside levee toe staked during February 2017 high water event. Recommend monitoring.					

No Photos

LM Start	<b>2.80</b>	Rating **	C	Issue No.	<b>83</b>
LM End	<b>2.99</b>	Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Trim / Thin Trees		38.553041 °	38.550527 °	
			-121.512556 °	-121.511331 °	
DWR ID	DWR_NA0005_01_f _ 2017_83				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
City of Sacramento has contract in place for trimming services.					

No Photos

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Unit No. 01 Sacramento River	Left	3.67	03/20/2018 03/20/2018	Zach Jojola

LM Start	2.85	Rating **	C	Issue No.	2
LM End	2.90	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			38.552268 °	38.551578 °
				-121.512590 °	-121.512336 °
DWR ID	DWR_NA0005_01_s _ 2016_2				
Comment Code					
Inspector Comment					
1997 - Erosion at pump station, concrete debris and plastic showing. 2000 - Separation scour of bank due to poor transition. 2004 - New large tree pop out; city dumped fill dirt/rock into hole. 2006 - Minor new erosion at top of bank. 2010 - Some new rock placed in tree pop-out. 2011 - A large tree has fallen and flood fighting was performed by the city on the upper levee slope. 2012 - Small rock placed in hole from tree popout. 2015: No observed changes. [2015 Site ID: SAC_56-6_L]					

No Photos

LM Start	2.88	Rating **	C	Issue No.	96
LM End	2.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.551953 °	38.551953 °
				-121.511953 °	-121.511953 °
DWR ID	DWR_NA0005_01_s _ 2017_96				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Sloughing on waterside levee slope.					

No Photos

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Unit No. 01 Sacramento River	Left	3.67	03/20/2018 03/20/2018	Zach Jojola

LM Start	3.61	Rating **	C	Issue No.	89
LM End	3.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			38.541889 °	38.541889 °
				-121.510999 °	-121.510999 °
DWR ID	DWR_NA0005_01_f_2017_89				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Beginnings of foot path next to erosion repair site. Recommend monitoring.					

No Photos

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